

CRATE[®]

KX-50 Keyboard Amplifier



OWNER'S MANUAL

Congratulations!

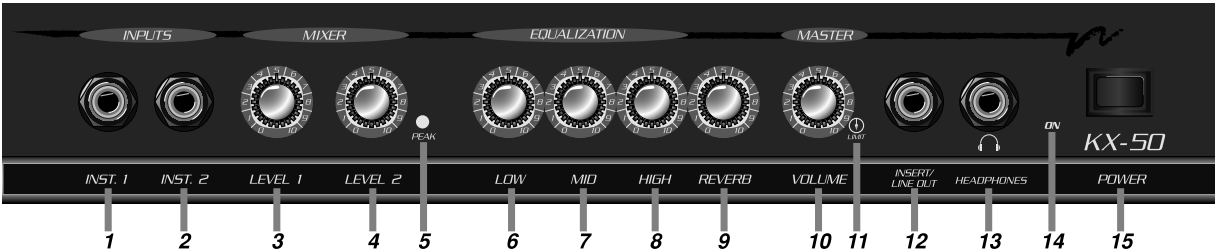
You are now the proud owner of the Crate KX-50 keyboard amplifier. This compact powerhouse features a 12" Crate Custom woofer and Piezo tweeter housed in a ported tuned enclosure. Each of its two input jacks has its own level control so you can mix your keyboard with another instrument, a tape deck or a Hi-Z vocal mic. The amplifier features three rotary EQ controls and a Master Reverb and Volume control. The Insert/Line Out jack allows you to connect external effects the amp or to run a signal to a recorder, mixing board or house PA. A Headphone jack allows for private practice sessions.

Like all Crate products, your KX-50 is Musician Made in the U.S.A., using only the best components. Extensive testing at the hands (and ears) of skilled technicians and musicians insures you that this amplifier is the absolute best it can be.

In order to get the most out of your new amplifier, we strongly urge you to go over the information contained in this manual before you begin playing.

And ***thank you*** for choosing **CRATE[®]**

CRATE® KX-50 Keyboard Amplifier



1: INST. 1 INPUT JACK: Plug any low to line level signal (keyboard, synthesizer/sampler, drum machine, tape deck, etc.) here. Use the Mixer Level 1 control (#3) to adjust the signal strength at this input.

2: INST. 2 INPUT JACK: Plug any low to line level signal (keyboard, synthesizer/sampler, drum machine, tape deck, etc.) here. Use the Mixer Level 2 control (#4) to adjust the signal strength at this input.

3: MIXER LEVEL 1 CONTROL: Adjust the level of the Instrument 1 signal with this control. Low output instruments may need a setting in the 5-10 range while instruments with "hotter" outputs may need a setting between 0 and 5. The best setting will cause the peak indicator (#5) to flash occasionally while playing. Too low a setting may increase background noise while too high a setting may cause harshness or distortion.

4: MIXER LEVEL 2 CONTROL: Adjust the level of the Instrument 2 signal with this control. Low output instruments may need a setting in the 5-10 range while instruments with "hotter" outputs may need a setting between 0 and 5. The best setting will cause the peak indicator (#5) to flash occasionally while playing. Too low a setting may increase background noise while too high a setting may cause harshness or distortion.

5: PEAK INDICATOR LED: This LED will light when the input levels are high enough to cause undesirable clipping and distortion. When levels are too high this LED may stay on continuously. If this happens, reduce the Level controls until the LED flashes occasionally at peak signals.

6: LOW CONTROL: Adjust the output level of the low tones with this control. The center position is "flat" (no boost or cut). Turning the control to the left reduces the output level of the low tones, turning it to the right boosts their level. This control allows a 26dB range of boost or cut at 100Hz.

7: MID CONTROL: Adjust the output level of the midrange tones with this control. The center position is "flat" (no boost or cut). Turning the control to the left reduces the output level of the midrange tones, turning it to the right boosts their level. This control allows a 24dB range of boost or cut at 700Hz.

8: HIGH CONTROL: Adjust the output level of the high tones with this control. The center position is "flat" (no boost or cut). Turning the control to the left reduces the output level of the high tones, turning it to the right boosts their level. This control allows a 26dB range of boost or cut at 8kHz.

9: REVERB CONTROL: Adjust the amount of reverberation effect with this control. At the extreme left (0) position the signal is "dry" - no reverb effect is added. As the control is rotated to the right the amount of reverb increases, giving a "concert hall" fullness to the sound. The reverb control affects both input channels.

10: MASTER VOLUME CONTROL: Use this control to adjust the output level of the amplifier, as well as the signal level at the Line Out and Headphone jacks (#12 and 13). At the extreme left (0) position there will be no output; rotating the control to the right increases the output power.

11: LIMIT: When a power amplifier reaches maximum output levels it may begin to "clip" its output signal which generates potentially speaker-damaging distortion. The KX-50 has a special APM (Automatic Power Maximizer) limiting circuit which helps minimize this problem by monitoring the power amplifier's output signal, keeping it below clipping. This feature insures you that the sound from your amplifier remains clean and pure even at full power. The APM indicator will only light when the amplifier is near clipping: flashing at peak playing levels is acceptable, however if the light remains on constantly, reduce the Master Volume until the light flashes.

12: INSERT/LINE OUT JACK: This jack provides you with an effects loop into the KX-50's power amp. The jack requires a 1/4" stereo phone plug with two shielded cables in a "Y" type configuration. The ring is "LINE OUT," the tip is "LINE IN" and the sleeve is a common ground. This jack can also be used as a "line out" tap by inserting a 1/4" mono phone plug half way into the jack. This does not interrupt the signal going to the power amp.

13: HEADPHONES JACK: For private practice sessions plug a pair of stereo headphones into this jack. The KX-50's internal speaker is disconnected when the headphone jack is used.

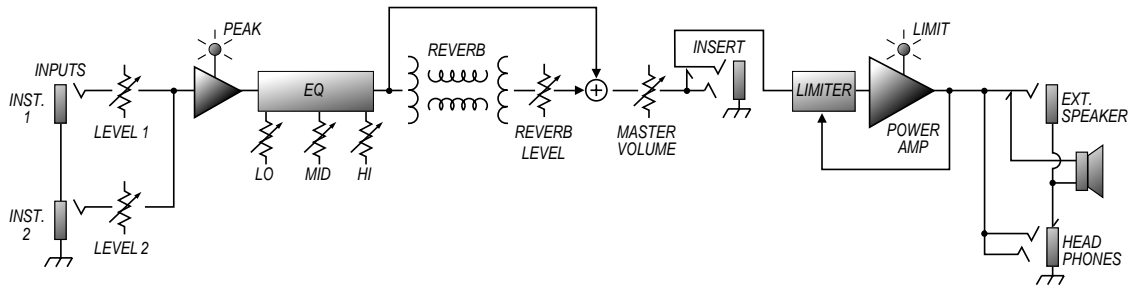
14: ON INDICATOR: This indicator will be lit when the amplifier is on.

15: POWER SWITCH: This switch turns the amplifier on in the right position and off in the left position.

16: POWER CORD: (Rear panel, not shown) This heavy-duty grounded three-wire power cord is to be plugged into ONLY a safely-wired, grounded 120 volt, 60 cycle AC power outlet. DO NOT attempt to defeat the ground connection on this cord. If your KX-50 was purchased outside of the United States, refer to the rear panel its power requirements and follow the above guidelines.

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SYSTEM BLOCK DIAGRAM:



The KX-50 is covered with a durable black Tolex material: wipe it clean with a lint-free cloth. Never spray cleaning agents onto the cabinet. Avoid abrasive cleansers which would damage the finish.

El KX-50 está cubierto con un material durable Tolex: límpielo con una toalla seca. Nunca rocíe el gabinete con sustancias limpiadoras. Evite usar materiales abrasivos con los cuales pueda danar el acabado.

Le KX-50 est couvert avec «Tolex» un recêtement noir et durable. Essayez cette matière avec une toile propre et sans charpie. Ne pulvérisiez jamais les agents de nettoyage sur l'appareil. Evitez les nettoyeurs abrasifs qui peuvent endommager le «Tolex.»

Crate continually develops new products, as well as improves existing ones. For this reason, the specifications and information in this Crate manual are subject to change without notice.







Crate continuamente desarrolla nuevos productos, así como también mejora los existentes. Por esta razón, las especificaciones e información incluidos en este manual están sujetos a cambios sin previo aviso.

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KX-50 TECHNICAL SPECIFICATIONS:

Output Power Rating	50 watts RMS @ 1% THD, 4 ohm load - 120VAC line
Gain	50dB, tones at "5" @ 1kHz
Tone Control Range	Low: 26dB @ 100Hz Mid: 24dB @ 700Hz High: 26dB @ 8kHz
Signal To Noise Ratio	80dB below full limited output
Input Impedance	10k ohms
Maximum Signal Accepted	15 volts peak to peak
Insert Jack	Line Output (Max): 2.5 volts peak to peak Line Input (Max): 2.5 volts peak to peak
Speaker Size and Rating	Crate Custom Design 12" w/1.5" voice coil, 30 oz. magnet, power handling 100 watts Piezo tweeter, power handling 150 watts
Cabinet Type	Ported tuned enclosure
Input Power Requirements	115 VAC, 60Hz, 85VA 100/110VAC, 50/60Hz, 85VA 230VAC, 50/60Hz, 85VA
Cabinet Size and Weight	19.5" H x 15.75" W x 14.25" D, 43 lbs.

 <p>CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN</p> <p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>	<p>THIS EQUIPMENT HAS BEEN DESIGNED AND ENGINEERED TO PROVIDE SAFE AND RELIABLE OPERATION. IN ORDER TO PROLONG THE LIFE OF THE UNIT AND PREVENT ACCIDENTAL DAMAGES OR INJURY, PLEASE FOLLOW THESE PRECAUTIONARY GUIDELINES:</p> <p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT OPEN CHASSIS; DO NOT DEFEAT OR REMOVE THE GROUND PIN OF THE POWER CORD; CONNECT ONLY TO A PROPERLY GROUNDED AC POWER OUTLET.</p> <p>WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.</p> <p>CAUTION: NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p> <p>CAUTION: OUR AMPLIFIERS ARE CAPABLE OF PRODUCING HIGH SOUND PRESSURE LEVELS. CONTINUED EXPOSURE TO HIGH SOUND PRESSURE LEVELS CAN CAUSE PERMANENT HEARING IMPAIRMENT OR LOSS. USER CAUTION IS ADVISED AND EAR PROTECTION IS RECOMMENDED IF UNIT IS OPERATED AT HIGH VOLUME.</p>	<p>ESTE APARATO HA SIDO DISEÑADO Y CONSTRUÍDO PARA PROVEER AÑOS DE OPERACION SEGURA Y CONFIABLE. PARA PROLONGAR LA VIDA DE ESTA UNIDAD E IMPEDIR DAÑOS ACCIDENTALES POR FAVOR SIGA ESTAS INSTRUCCIONES PREVENTIVAS:</p> <p>PRECAUCIÓN: PARA DISMINUIR EL RIESGO DE DESCARGAS ELÉCTRICAS: (1) NO ABRA LA CUBIERTA, (2) NO ES RECOMENDABLE REMOVER O DESACTIVAR LA PATA DEL POLO A TIERRA DEL CABLE DE CORRIENTE. CONECTE CORRECTAMENTE A UNA TOMA DE CORRIENTE A TIERRA.</p> <p>ADVERTENCIA: PARA EVITAR DESCARGAS ELÉCTRICAS O PELIGRO DE INCENDIO, NO DEJE ESTE APARATO EXPUESTO A LA LLUVIA O HUMEDAD.</p> <p>PRECAUCIÓN: NO HAY PIEZAS ADENTRO QUE EL USUARIO PUEDE REPARAR. DEJE TODO MANTENIMIENTO A LOS TÉCNICOS CALIFICADOS.</p> <p>PRECAUCIÓN: NUESTROS AMPLIFICADORES PUEDEN PRODUCIR NIVELES DE PRESION DE SONIDO ALTO. EXPOSICION CONTINUADA A LOS NIVELES DE PRESION DE SONIDO ALTO PUEDE CAUSA DANO PERMANENTE A SU OIDO. ES ACONSEJADO QUE USE PRECAUCIONAL USUARIO Y ES RECOMENDADO PROTECCION PARA LOS OIDOS SI LA UNIDAD ES OPERADA A VOLUMEN ALTO.</p>	<p>CET ÉQUIPEMENT AVAIT ÉTÉ INVENTÉ ET ARRANGÉ POUR POURVOIR DES ANNÉES D'USAGE SAUF ET SÛR. POUR PROLONGER LA VIE DE CET APPAREIL ET POUR EMPÊCHER LES DOMMAGES ET LES TORTS ACCIDENTELS, SUIVEZ LES INSTRUCTIONS DE PRÉCAUTION.</p> <p>AVERTISSEMENT: POUR RÉDUIRE LES RISQUES D'ÉLECTROCUTION: (1) N'OUVREZ PAS LE CHÂSSIS, (2) NE PAS ESSAYER DE SUPPRIMER LA BROCHE CORRESPONDANT À LA TERRE.</p> <p>ATTENTION: POUR RÉDUIRE LES RISQUES D'UN FEU OU D'ÉLECTROCUTION, N'EXPOSEZ PAS L'APPAREIL À LA PLUIE OU À LA MOI-TEUR.</p> <p>ATTENTION: IL N'Y A PAS D'ÉLÉMENTS RÉPARABLES DANS L'APPAREIL. CONSULTER UN TECHNICIEN QUALIFIÉ POUR LES RÉPARATIONS.</p> <p>ATTENTION: NOS AMPLIFICATEURS SONT CAPABLES DE LA PRODUCTION DES NIVEAUX DE SON D'UNE HAUTE PRESSION. L'EXPOSITION CONTINUE AUX CES NIVEAUX PEUT CAUSER LA SURDITÉ PERMANENTE. LA PRUDENCE EST ADVISÉ À UTILISATEUR ET LA PROTECTION DES OREILLES EST RECOMMANDÉ SI L'APPAREIL EST UTILISÉ À UN HAUT NIVEAU DE VOLUME.</p>
 <p>PRECAUCION RIESGO DE CORRIENTAZO NO ABRA</p> <p>PRECAUCION PARA DISMINUIR EL RIESGO DE CORRIENTAZO NO ABRA LA CUBIERTA NO HAY PIEZAS ADENTRO QUE EL USARIO PUEDO REPARAR DEJE TODO MANTENIMIENTO A LOS TECNICOS CALIFICADOS</p>			
 <p>ATTENTION RISQUE D'ELECTROCUTION NE PAS OUVRIR</p> <p>ATTENTION: POUR RÉDUIRE D'ELECTROCUTION NE PAS ENLEVER LE COUVERCLE. AUCUNE PIÈCE INTERNE NEST REPRABLE PAR L'UTILISATEUR. POUR TOUTE RÉPARATION, S'ADRESSER A UN TECHNICIEN QUALIFIÉ.</p>			
 <p>VORSICHT ELEKTRISCHE SCHLAGGEFAHR NICHT OFFENEN</p> <p>VORSICHT: ZUR MINIMIERUNG ELEKTRISCHER SCHLAGGEFAHR NICHT DEN DECKEL ABENHMEN. INTERNE TEILE KONNEN NICHT VOM BENUTZER GEWARTET WERDEN. DIE WARTUNG IS QUALIFIZIERTEM WARTUNGSPERSONAL ZU UBERLASSEN.</p>			
<p>EXPLANATION OF GRAPHICAL SYMBOLS: EXPLICACION DE SIMBOLOS GRAFICOS: EXPLICATION DES SYMBOLES GRAPHIQUES:</p>	 = "DANGEROUS VOLTAGE" "VOLTAGE PELIGROSO" "DANGER HAUTE TENSION" "GEFAHLICHE SPANNUNG"	 = "IT IS NECESSARY FOR THE USER TO REFER TO THE INSTRUCTION MANUAL." "ES NECESARIO QUE EL USUARIO SE REFIERA AL MANUAL DE INSTRUCCIONES." "REFERREZ-VOUS AU MANUAL D'UTILISATION" "UNBEDINGT IN DER BEDIENUNGSANLEITUNG NACHSCHLAGEN"	

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